

Guiding Principles
(The What and How)
for Technical Area Teams and Team Leads of the
Propulsion and Power Systems Alliance

The PPSA Vision

Improve propulsion and power systems technology program coordination and collaboration among government agencies, e.g. DoD, NASA, DOE, and FAA -- leading to a greater national alliance/reliance among the program participants and therefore stakeholders, resulting in more effective leveraging of existing federal investments in aerospace propulsion and power research and technology.

"The What"

The Technology Area Teams (TATs) of the Propulsion and Power Systems Alliance (PPSA) have the critical responsibility of determining, planning, and executing collaborative efforts under the banner of PPSA. Indeed the ultimate measure of success of PPSA (and realization of the PPSA vision) will come from the combined efforts of all the TATs chartered by PPSA to plan and execute collaborative efforts relative to technology development /demonstration relevant to future turbine engine propulsion and power systems. As a reference, the collaborative model being employed by PPSA is shown below as Figure 1 and is the basis for the following discussion of roles and responsibilities for each TAT and in particular for the leader for that team.

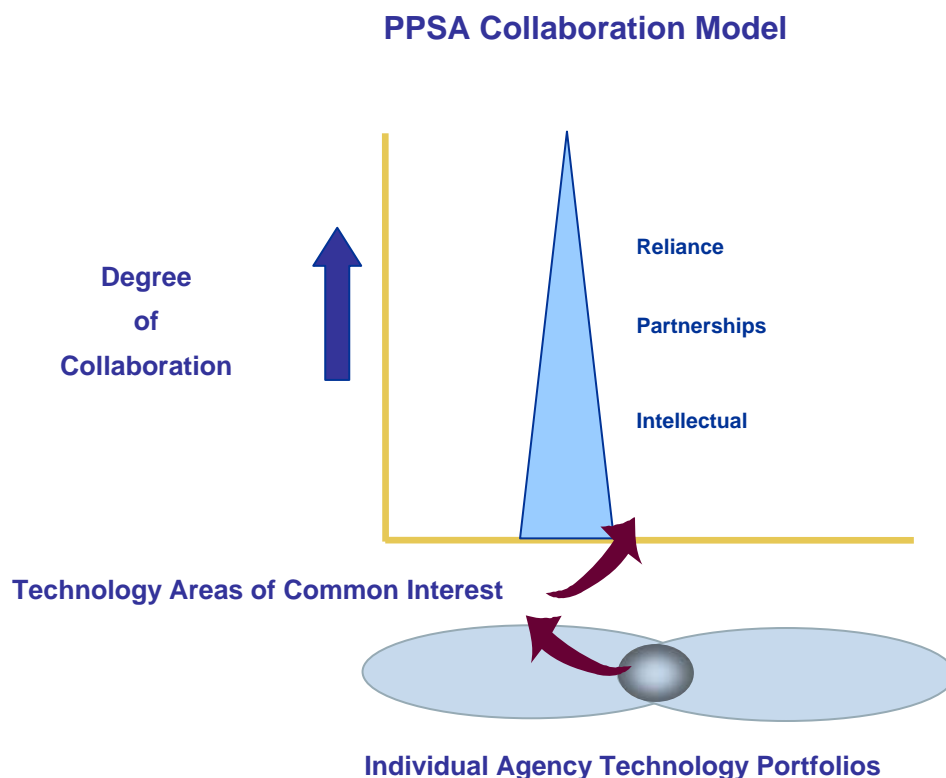


Figure 1 PPSA Collaboration Model

Specifically, the TATs through meetings and telecons should provide a forum for each participating government agency to present its relevant technology development plan. These presentations should be the basis for exploration of collaborative opportunities:

- Intellectual collaboration-learning from other relevant projects so as to incorporate lessons learned, best practices, approaches to take/avoid, relationships to form, etc.
- Partnership-coming together to identify a set of common objectives and develop/implement a single technology effort supported by a combined set of resources from the participating agencies (shared risk, shared reward)
- Reliance-determination/recommendation of area(s) where one agency could choose not to pursue a technology effort and thus become dependent on another agency for that technology.

In addition to interagency collaboration, the TATs are encouraged to explore involvement of external parties (other government agencies, larger companies, small businesses, and universities) in collaborative efforts of any type.

For all collaborative efforts, the TATs should monitor progress and identify any issues in a timely fashion so that they can be brought to the attention of the Leadership Team (LT) for a timely resolution whenever possible.

The chairperson of each TAT shall regularly brief the LT on the status, accomplishments, and issues for that TAT. In addition the chairperson shall be responsible for gathering and reporting on the accepted metrics for PPSA. These metrics shall be reported on a yearly basis at the PPSA annual meeting.

Each TAT should wherever appropriate recommend to the LT opportunities for collaboration that have been identified but cannot be executed due to factors such as resource limitations, etc.

"The How"

To the greatest extent possible, the TATs are empowered to develop their individual approaches to accomplishing the desired objectives as described above. However, the following should serve as the minimum set of requirements for each TAT.

1. Each TAT is responsible for the development and maintenance of its charter as communicated through the vision statement. The TATs are encouraged to review and update their vision statements on a regular basis.
2. At least one face-to-face meeting of each TAT should be held each year. This meeting should be separate from the PPSA annual meeting which is held each fall. In order to minimize travel dollars and time expenditures, the TATs are encouraged to hold their face-to-face meetings in conjunction with other scheduled meetings such as society meetings (e.g. AIAA Aerospace Sciences and Joint Propulsion Conference, ASME/IGTI Conference)
3. Regular telecons between face-to-face meetings to conduct TAT business should be scheduled and conducted. The definition of the term "regular" is left up to each TAT.
4. The TATs should fully participate in the PPSA Annual Meeting.
5. External organizations should be invited to present to the TAT on efforts that are related to the TAT charter and use these presentations and interactions to explore possible collaborative efforts.
6. The TATs should collect and provide to the LT success stories that have occurred during the reporting period as well as recommendations for improvement in the business practices of PPSA.
7. The TATs are encouraged to explore opportunities for collaboration with other TATs as well as with other interagency collaborative organizations (e.g. Interagency Advanced Power Group (IAPG).)

It is the responsibility of the team leader of each TAT to provide the leadership for the TAT in order to accomplish the "What and How" described above. The team lead is free to and indeed encouraged to involve all/ members of the TAT in planning and conducting TAT business. In addition the chairperson is encouraged to actively work the PPSA executive secretariat in the planning and conduct of TAT business including meeting development and execution.

Concluding Remarks

Turbine engine based propulsion and power systems play a critical role in our country's health - both economically and militarily. Nevertheless, future Federal government investments in technologies relevant to turbine engine systems are forecast to at best remain level for the foreseeable future. Thus, if the required technologies are to be developed and transitioned to the user community in a timely fashion, collaboration between government agencies and with external organizations must become an even more important part of the technology development process. PPSA has an opportunity to play a leadership role in identifying, forming, and executing collaborative activities that will contribute to a strengthened technology portfolio.

The TATs are the foundation upon which PPSA is constructed and their performance and accomplishments are absolutely critical if the PPSA vision is to be realized and the leadership role is to be accomplished. The team leads have the responsibility to provide the leadership for each of the TATs so that the groups can each contribute positive, measurable products toward advancing the turbine engine propulsion and power technology agenda for the U. S.

Consistent with the spirit of collaboration, this roles and responsibilities document should be viewed as a partnership between the LT and the TATs. Thus, the TATs through their respective team leads are encouraged to suggest improvements to the chairperson and/or the executive secretariat of the LT.

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